Amendments to the Claims:

1. (Original) A method for filling a gap at the junction between two lengths of coated pipe, the method comprising:

enclosing the gap with a mold having an opening; introducing a joint filling composition into the mold; and allowing the joint fill composition to react and form a foam; wherein the joint filling composition comprises:

an A-side component comprising between about 75 weight % to about 85 weight % of polymeric MDI and between about 15 weight % and about 25 weight % 2,2,4-trimethyl-1,2-pentanediol diisobutyrate; and

as B-side component comprising between about 35 weight % and about 45 weight % of amine based polyether polyol, and about 50 weight % to about 65 weight % 2,2,4-trimethyl-1,2-pentanediol diisobutyrate.

- 2. (Original) The method of claim 1, wherein the catalyst comprises an amine catalyst.
- 3. (Original) The method of claim 1, wherein the composition further comprises water.
- 4. (Original) The method of claim 1, wherein the composition further comprises hydrofluorocarbon blowing agent.
- 5. (Original) The method of claim 1, wherein the composition further comprises a silicone based surfactant.
- 6. (Original) The method of claim 1, further comprising the step of removing the mold after formation of the polymer.

Serial No. 10/801,164 Docket No. H053699.0010US0 Preliminary Amendment

- 7. (Original) The method of claim 1, wherein the polymer comprises a polyurethane foam having an open cell content of about eighty percent or higher.
- 8. (Original) The method of claim 1, wherein the polymer comprises a polyurethane foam having an open cell content of about ninety percent or higher.
- 9. (Original) The method of claim 1, wherein the polymer comprises a polyurethane foam having a density of between about 2 and about 12 pounds per cubic foot.
- 10. (Original) The method of claim 1, further comprising the step of adding filler material to the mold, after the enclosing step and before the step of introducing the reaction composition.
- 11. (Original) The method of claim 1, further comprising the step of adding a permeable membrane into the mold before the step of introducing the reaction composition.
- 12. (Original) The method of claim 1, further comprising the step of adding a permeable membrane into the mold before the step of introducing the reaction composition.
- 13. (Original) A method for filling a gap at the junction between two lengths of coated pipe, the method comprising:

enclosing the gap with a mold having an opening;

introducing a composition comprising polyol, isocyanate, and an ester diluent into the mold; and

allowing the composition to react and form a polymer.

- 14. (Original) The method of claim 13, wherein the polyol comprises an amine based polyether polyol.
- 15. (Original) The method of claim 13, wherein the isocyanate comprises polymeric MDI.
 - 16. (Original) The method of claim 13, wherein the ester comprises a diester.

Serial No. 10/801,164 Docket No. H053699.0010US0 Preliminary Amendment

- 17. (Original) The method of claim 13, wherein the insoluable ester comprises 2,2,4-trimethyl-1,2-pentanediol diisobutyrate.
- 18. (Original) The method of claim 13, wherein the composition further comprises water.
- 19. (Original) The method of claim 13, wherein the composition further comprises hydrofluorocarbon blowing agent.
- 20. (Original) The method of claim 13, wherein the composition further comprises hydrocarbon blowing agent.
- 21. (Original) The method of claim 13, wherein the composition further comprises a silicone based surfactant.
- 22. (Original) The method of claim 13, further comprising the step of removing the mold after formation of the polymer.
- 23. (Original) The method of claim 13, wherein the polymer comprises a polyurethane foam having an open cell content of about eighty percent or higher.
- 24. (Original) The method of claim 13, wherein the polymer comprises a polyurethane foam having an open cell content of about ninety percent or higher.
- 25. (Original) The method of claim 13, wherein the polymer comprises a polyurethane foam having a density of between about 2 and about 12 pounds per cubic foot.
- 26. (Original) The method of claim 13, wherein the polymer comprises an elastomeric polymer.
- 27. (Original) The method of claim 13, wherein the isocyanate comprises an isocyanate prepolymer.

Serial No. 10/801,164 Docket No. H053699.0010US0 Preliminary Amendment

- 28. (Original) The method of claim 13, further comprising the step of adding filler material to the mold, after the enclosing step and before the step of introducing the reaction composition.
- 29. (Original) The method of claim 13, further comprising the step of adding a permeable membrane into the mold before the step of introducing the reaction composition.
- 30. (Original) A reaction composition for infilling a gap at the junction between two lengths of coated pipe, comprising:

an A-side component comprising polymeric MDI and 2,2,4-trimethyl-1,2-pentanediol diisobutyrate; and

a B-side component comprising an amine based polyether polyol, and 2,2,4-trimethyl-1,2-pentanediol diisobutyrate.